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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2007; month=12; day=13; hr=9; min=25; sec=24; ms=252; ]

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Application No: 10559406

Version No: 1.0

Input Set:

Output Set:

Started: 2007-11-21 08:28:40.308

Finished: 2007-11-21 08:28:42.769

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 461 ms

Total Warnings: 15

Total Errors: 5

No. of SeqIDs Defined: 15

Actual SeqID Count: 15

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (37)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (11)
E 323	Invalid/missing amino acid numbering SEQID (11) POS (65)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
E 323	Invalid/missing amino acid numbering SEQID (15)at Protein (11)



Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10559406

<141> 2007-11-21

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala
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<210> 2

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope beta-9 (t?hCG)

<400> 2

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10				15	

<210> 3

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope e-beta-1 (e-beta-hCG)

<400> 3

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
1 5 10 15

<210> 4

<211> 15

<212> PRT

<213> artificial

<220>

<223> Epitope beta-1 (t-beta-hCG)

<400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr  
1 5 10 15

<210> 5

<211> 861

<212> DNA

<213> human

<220>

<223> beta-hCG beta-7 cDNA-Sequenz

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actgagtctc agaggtcact tcaccgtggt ctccgctcca tccttgccgc tagaccactg 180  
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc ctgtgtact 240  
tctgcctccc cgaagggtta gtgtccagct cactccagca tcctacaacc tcctgggtgc 300  
cttgacgccc ccacaaaccc gaggtataaa gccagggtaca ccaggcaggg gacgcaccaa 360  
ggatggagat gttccagggg ctgctgctgt tctgtgctgt gacgatgggc gggacatggg 420  
catccaagga gatgcttcgg ccacggtgcc gccccataaa tgccacctg gctgtggaga 480  
aggagggtcg ccccgctgtgc atcacgctca acaccaccat ctgtgccggc taetgcccc 540  
ccatgaacctg cgtgctgcag ggggtcctgc cggcctgcc tcagggtggg tgcaactacc 600

gcgatgtgag ctctgagtc atccggctcc ctggctgccc gcggcgctg aaccccggtg 660  
tctctacgc cgtggctctc agctgtcaat gtgcaactct ccgcgcgagc accactgact 720  
ggcgggggtcc caaggaccac ccttgacct gtgatgacct ccgctccag gctcctctt 780  
ctcctaaagg cctccccccc agccttccaa gtcacatccc actcccgggg cctcggaca 840  
ccccgatcct cccacaataa a 861

<210> 6

<211> 861

<212> DNA

<213> human

<220>

<223> beta-hCG beta-6 cDNA-Sequenz

<400> 6

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actgagtctc agaggtcact tcaccgtggt ctccgctcca tccttgccgc tagaccactg 180

aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc ctgtgtact 240  
 tctcgccccc cgaagggtta gtgtcgagct cactccagca tctacaacc tctgtgtggc 300  
 ctctgcgcgc ccacaacccc gaggtatgaa gccagggtaca ccaggcaggg gacgcaccaa 360  
 ggatggagat gtccaggggg ctgctgtgtg tctgtgtgtg gagcatggg gggacatggg 420  
 catccaaagg gccacttcgg ccacgggtgc gccccatcaa tgcacctcg gctgtggaga 480  
 agggagggtg ccccggtgac ataccgtca acaccaccat ctgtgcggcg tactgcccc 540  
 ccatgacccg cgtgtgcag ggggtcctgc cggccctgcc tcagggtgtg tgaactacc 600

gcgatgtgcg ctteagatcc atccggtcc ctgggtgccc gcgcggcggtg aaccgcgtgg 660  
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgcgcgagc accactgact 720  
 gcgggggttc caaggaccac ccttgacct gtgatgacc ccgctccag gctcctctt 780  
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 ccccgatcct ccacaataa a 861

<210> 7  
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 <212> DNA  
 <213> human  
 <220>  
 <223> e-beta-hCG ("endo" beta-6e) cDNA-Sequenz  
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 actgagtcct agagggtcact taccggtggt ctccgctcca tcttgggyc tagaccactg 180  
 aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc ctgtgtact 240  
 tctcgccccc cgaagggtta gtgtcagct cactccagca tctacaacc tctgtgtggc 300  
 ctgtmcgccc ccacaacccc gaggtatcaa gccagggtaca ccaggcaggg gacgcaccaa 360  
 ggatggagat gtccaggggg ctgctgtgtg tctgtgtgtg gagcatggg gggacatggg 420  
 catccaggga gmyrcttcgg ccacgggtgc gccccatcaa tgcacctcg gctgtggaga 480  
 agggagggtg ccccggtgac ataccgtca acaccaccat ctgtgcggcg tactgcccc 540  
 ccatgacccg cgtgtgcag ggggtcctgc cggccctgcc tcagggtgtg tgaactacc 600

gcgatgtgcg ctteagatcc atccggtcc ctgggtgccc gcgcggcggtg aaccgcgtgg 660  
 tctcctacgc cgtggctctc agctgtcaat gtgcactctg ccgcgcgagc accactgact 720  
 gcgggggttc caaggaccac ccttgacct gtgatgacc ccgctccag gctcctctt 780  
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 ccccgatcct ccacaataa a 861

<210> 8  
 <211> 165  
 <212> PRT  
 <213> human  
 <220>  
 <223> t-beta-hCG beta-5, beta-8, beta-3 (prehormone)  
 <400> 8

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly  
 -20 -15 -10 -5

Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile  
 -1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
 15 20 25  
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
 30 35 40  
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
 45 50 55 60  
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
 65 70 75  
 Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
 80 85 90  
 Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
 95 100 105  
 Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro  
 110 115 120  
 Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
 125 130 135 140  
 Pro Ile Leu Pro Gln  
 145

<210> 9  
 <211> 165  
 <212> PRT  
 <213> human  
 <220>  
 <223> beta-hCG beta-7 (prehormone)  
 <400> 9

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly  
 -20 -15 -10 -5  
 Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile  
 -1 1 5 10  
 Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
 15 20 25  
 Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
 30 35 40  
 Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
 45 50 55 60  
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val

65

70

75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro  
110 115 120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
125 130 135 140

Pro Ile Leu Pro Gln  
145

<210> 10

<211> 165

<212> PRT

<213> human

<220>

<223> e-beta-hCG beta-6e (with Arg in Pos 2) (prehormone)

<400> 10

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly  
-20 -15 -10 -5

Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile  
-1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
30 35 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg  
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu  
80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro  
110 115 120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr  
125 130 135 140

Pro Ile Leu Pro Gln

145

<210> 11

<211> 141

<212> PRT

<213> human

>220<

<223> beta-LH beta-4 (prehormone)

<400> 11

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-20 -15 -10 -5

Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile  
-1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr  
15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val  
30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg  
45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val  
65 70 75

Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro  
80 85 90

Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu  
95 100 105

Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu  
110 115

<210> 12

<211> 10

<212> PRT

<213> artificial

<220>

<223> Peptide P1 (e-beta-hCG)

<400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser

1 5 10

<210> 13  
<211> 10  
<212> PRT  
<213> artificial  
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<223> Peptide K1 (t-beta-hCG)  
<400> 13

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser  
1 5 10

<210> 14  
<211> 11  
<212> PRT  
<213> artificial  
<220>  
<223> Peptide P2 (e-beta-hCG)  
<400> 14

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro  
1 5 10

<210> 15  
<211> 11  
<212> PRT  
<213> artificial  
<220>  
<223> Peptide K2 (t-beta-hCG)  
<400> 15

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro  
1 5 10 11